

SMIP15 SEMINAR ON UTILIZATION OF STRONG-MOTION DATA

October 22, 2015

Putah Creek Facility
University of California, Davis, California

PRELIMINARY PROGRAM

8:15 am **REGISTRATION**

9:15 am **WELCOMING REMARKS**

Farzad Naeim, Strong Motion Instrumentation Advisory Committee (SMIAC)
John Parrish, State Geologist, California Geological Survey
David Bunn, Director, Department of Conservation

INTRODUCTION

Anthony Shakal, Manager, California Strong Motion Instrumentation Program
Moh Huang, California Strong Motion Instrumentation Program

Session I

Moderator: *Wilfred Iwan*, Caltech and SMIAC

9:30 am **Ground Motion Prediction Equations – Past, Present, and Future**

The 2014 William Joyner Lecture

David Boore, US Geological Survey (invited speaker)

10:30 am Break

Session II

Moderator: *Marshall Lew*, AMEC Foster Wheeler and SMIAC

11:00 am **Effectiveness of 1D Ground Response Analysis at Predicting Site Response from California Vertical Array Sites**

Kioumars Afshari and *Jonathan Stewart*, UC Los Angeles.

11:30 pm **Topographic Effects in Strong Ground Motion**

Manisha Rai and *Adrian Rodriguez-Marek*, Virginia Polytechnic Institute and State University.

12:00 pm **Lunch**

Lunch will be provided

<i>Session III</i>

Moderator: *Martin Eskijian*, California State Lands Commission and SMIAC

12:50 pm **Evaluation of ASCE/SEI 7 Direction of Loading Provisions Using CSMIP Records**

Reid Zimmerman, Bret Lizundia and *Saeed Fathali*, Rutherford + Chekene

1:20 pm **On the Combination of Bi-Direction Responses**

Dinosio Bernal, Northeastern University

1:50 pm **Rapid Post-Earthquake Safety Evaluation of Bridges**

Roy Imbsen, Shahriar Vahdani and Jinqun Zhong, SC Solutions

2:20 pm Break

<i>Session IV</i>

Moderator: *Bret Lizundia*, Rutherford + Chekene and SMIAC

2:40 pm **Identification and Validation of Natural Periods and Modal Damping Ratios for Steel and Concrete Buildings in California**

Angie Harris, Farzad Naeim and *Farzin Zareian*, UC Irvine

3:10 pm **Identification of Soil-Foundation Impedance Functions from Seismic Response Signals of Instrumented Buildings**

S. Farid Ghahari, Fariba Abazarsa and *Ertugrul Taciroglu*, UC Los Angeles

3:40 pm **Adjourn**